

**Welcome!**

**ISCD-NIST Workshop on  
Standards and Measurements for Assessing  
Bone Health**

**ISCD 12<sup>th</sup> Annual Meeting  
Sheraton Hotel  
San Diego, CA**

**4 February 2006**



**Thank You!**

## Organizing Committee

### Co-Chairmen:

**John Shepherd, PhD, University of California-San Francisco  
and ISCD Standards Committee Chairman**

**Herbert Bennett, PhD, NIST (301) 975-2079, [herbert.bennett@nist.gov](mailto:herbert.bennett@nist.gov)**

### Members:

**Deborah Augustus, CPM, ISCD Corporate Partnerships and  
Annual Meeting Manager**

**G. Avery, RT (R)(N), CDT, Clarian Health and ISCD Board of Directors**

**Andrew Dienstfrey, PhD, NIST (303)-497-7485 [andrew.dienstfrey@nist.gov](mailto:andrew.dienstfrey@nist.gov)**

**Lawrence Hudson, PhD, NIST (301)-975-2537 [lawrence.hudson@nist.gov](mailto:lawrence.hudson@nist.gov)**

**Paul Miller, MD, Colorado Center for Bone Research Director  
and ISCD Fracture Risk Taskforce Chairman**

**Tammy Oreskovic, MS, NIST (303)-497-4571 [tammy.oreskovic@nist.gov](mailto:tammy.oreskovic@nist.gov)**

**Steven Petak, MD, JD, Texas Institute for Reproductive Medicine and  
Endocrinology Director and ISCD President**

**Martin Rotblatt, CAE, ISCD Associate Director**

**S. Bobo Tanner, MD, Vanderbilt University and  
ISCD Education Committee Chairman**

## ISCD-NIST Workshop Objectives

**Describe the challenges and demands** associated with improving DXA measurements.

**Identify current and future standards and measurement infrastructure needs** associated with technologies for assessing bone health, fracture risk and efficacy of therapies.

**Involve all who assess bone health** to discuss needs and solutions.

**Identify systemic gaps and weaknesses** in standards and supporting data for technologies used to assess bone health, such as measuring bone mineral density.

**Establish, if possible, agreement on priorities** for addressing needs, gaps, and weaknesses in technologies for determining bone mineral density.

# ISCD - NIST Workshop

## Morning Session 1

**ISCD-NIST Workshop on Measurements and Standards for Assessing Bone Health, Saturday, February 4, 2006, Track III - Special Considerations**

**Session Moderator - Tammy Oreskovic, MS, NIST**

- |                           |   |
|---------------------------|---|
| <b>8:00 AM - 8:10 AM</b>  | <b>Welcome and Introduction - Herbert Bennett, PhD, NIST</b>  |
| <b>8:10 AM - 8:40 AM</b>  | <b><i>The United States Measurement System<br/>- The NIST Approach and Your Role</i><br/>Herbert Bennett, PhD, NIST</b>   |
| <b>8:40 AM - 9:10 AM</b>  | <b><i>Clinical Implications Resulting from the Unification of Bone<br/>Densitometry Calibrations and Standards</i><br/>Nelson Watts, MD, University of Cincinnati</b> |
| <b>9:10 AM - 9:40 AM</b>  | <b><i>State of Standardization in Central Densitometry</i><br/>Thomas Hangartner, PhD, Wright State University</b>  |
| <b>9:40 AM - 10:00 AM</b> | <b>Break</b>  |

# **ISCD - NIST Workshop**

## **Morning Session 2**

**ISCD-NIST Workshop on Measurements and Standards for Assessing Bone Health, Saturday, February 4, 2006, Track III - Special Considerations**

**Session Moderator - Andrew Dienstfrey, PhD, NIST**

**10:00 AM - 10:30 AM** *State of Standardization in Peripheral Densitometry*

**Paul Miller, MD, Colorado Center for Bone Research**

**10:30 AM - 11:00 AM** *DXA Reference Data: Status, Issues, and Future Needs*

**Anne Looker, MD, Centers for Disease Control and Prevention**

**11:00 AM - 11:30 AM** *Quality Assurance and National Standardization Programs for Densitometry Around the World*

**Didier Hans, MD, MBA, Geneva University Hospital, Switzerland**

**11:30 AM - Noon** **Discussion of Measurement Needs with Audience Participation**

**Noon - 1:15 PM** **Lunch**

# **ISCD - NIST Workshop**

## **Afternoon Session 3**

**ISCD-NIST Workshop on Measurements and Standards for Assessing Bone Health,  
Saturday, February 4, 2006, Track III - Special Considerations**

### **Panel of experts**

**to motivate audience participation on issues presented in the morning session**

**Session Moderator - Thomas Fuerst, PhD, SYNARC**

**1:15 PM - 3:00 PM**

### **Panelists:**

#### ***ISCD Perspective***

**Steve Petak, MD, JD, FACE, Texas Institute for  
Reproductive Medicine  
and Endocrinology**

#### ***Industry Perspective***

**John Shepherd, PhD, University of California -  
San Francisco**

#### ***CMS/Insurer Perspective***

**Mitchell Burken, MD, TrailBlazer Health  
Enterprises**

#### ***NIST Perspective***

**Lawrence Hudson, PhD, NIST**

**3:00 PM - 4:00 PM**

### **Conclusion:**

**Summary of Measurement Needs**

# ISCD - NIST Workshop

**Afternoon Session 3:00 PM - 4:00 PM**

## **NIST Format for Summarizing Measurement Needs [1 page each]**

Technology at Issue [2-3 words: as broad or as narrow as fits situation]

Technological Innovation at Stake

Economic Significance of Innovation

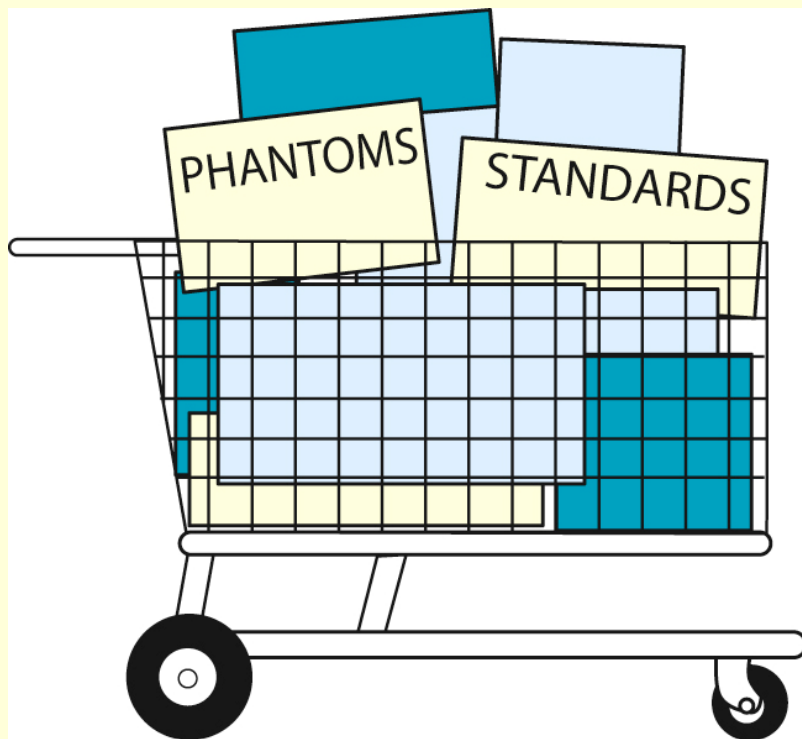
Technical Barrier to the Innovation

Stage of Innovation Where Barrier Appears [R&D, Production, Marketing, End Use]

Potential Solutions to Problem

Potential Providers of Solutions [please be as specific as possible]

Role for Government, if Any [Why Industry Says It Can't/Won't Pay for That Part of Solution]



## ISCD - NIST Workshop

**Shop + Work = Workshop**

In the morning session, the five invited speakers will help us identify (shop for) standards and measurement needs.



In the afternoon session, the panelists will help us discuss (work on) those needs from the morning session as well as needs suggested by the audience.